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DATA CENTER OPERATIONS BRANCH

NDS OPERATIONS PROCEDURE MANUAL
NO. P-I005

APPLICATIONS SOFTWARE
13 April 1983

INSTALLATIONS DATA FILE EXCHANGE 1

SYMBOLIC TITLE: IDFEX1
PROGRAMMER:

25X1

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Program IDFEX1

Date 12 June 1981

APPROVALS

This operations manual has been reviewed and approved by the
following persons:
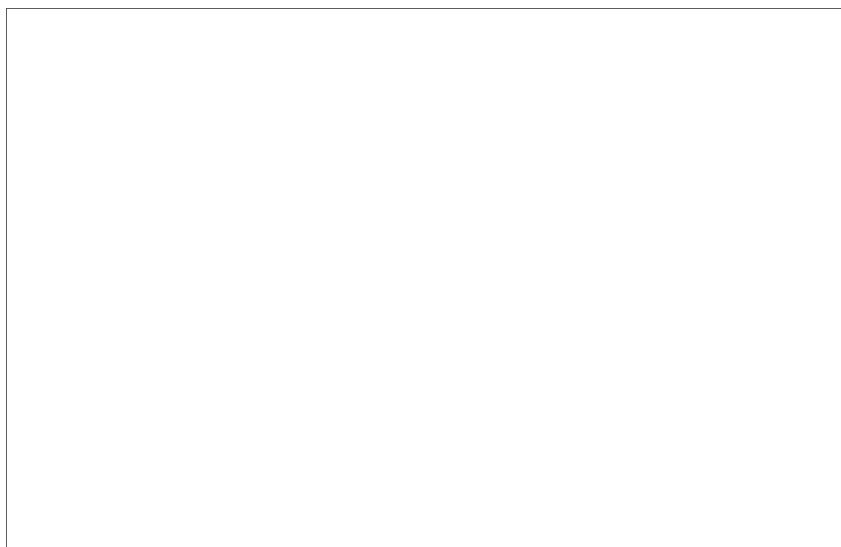
25X1

4 Feb 82
(date)

_2/4/82_
(date)

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Program IDFEX1

Date 12 June 1981

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Program _____ IDFEX1 _____

Date _12 June 1981_____

SUMMARY

The IDFEX1 program was written to replace the IDF Exchange programs on the Univac 494 computer. IDFEX1 will extract certain data direct from the IDF and create a tape. The output data format and record types are in the document Installations Data File - Magnetic Tape Format, April 1981, [   ]N40404. 25X1 This information is sent to other users in the Intelligence Community. (Currently CIA/OSR and DIA/MIA are our only users).

IDFEX1 will extract directly from the IDF. The requestor must specify what records are to be retrieved. One or all can be selected. Also, the user must specify a range of MRN numbers to do the retrieval on. This extracted data is formatted on the requestors tape and sent to the requestor.

IDFEX1 provides the capability for the user to specify what type of data is to be extracted. 'MI' and 'KH', 'Aircraft' or both types of data may be selected by the user. There are eight IDF records that the user can specify - TGT-HDR, TGT-COLL, TGT-GEN-REF, TGT-STA-DES, TGT-DEF-SEC, TGT-OB, TGT-PHOT, and TGT-PRFL. These must be specified.

IDFEX1 must be restarted completely; it can be rerun at anytime.

The IDFEX1 program is coded in ASCII COBOL and uses DMS for file processing.

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OPERATIONAL FLOW CHART

```
    ┌─────────┐              ┌─────────────┐
   (   IDF    )             (   OPTION     )
    └─────────┘              (   CARDS      )
         │                   └─────────────┘
          \                   /
           \                 /
            \               /
         ┌──────────────────┐
         │     IDFEX1        │
         └──────────────────┘
                  │
                  │
                  ▼
              ╭───────╮
             │  USER   │
             │  TAPE   │
              ╰───────╯
```
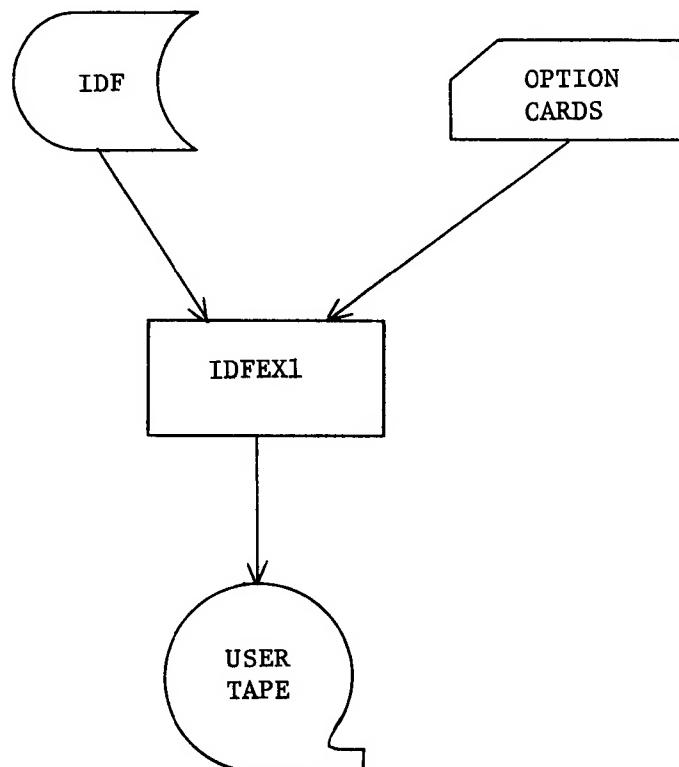
'NDS 13 (SYS) IDFEX1'

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Program : IDFEX1

Date : 12 June 1981

COMPUTER RUN PREPARATION

PUNCHED CARD INPUT

Type:

Identification:

Format:

YYYYYYYY N 3 000010999999

```
0 0        0 0 0 0 0 0 0 0       0  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
```

N = numeral
A = letter
X = any legitimate character in card code

Z = optional character (letter of numeral)
& = plus
- = minus
S = special character

Field	Column	Comments
RESTART-OPTION = 'Y' *	1	Indicates program to be restarted
TGT-HDR = 'Y'	3	All TGT-HDR records to be processed
TGT-COLL = 'Y'	4	All TGT-COLL records to be processed
TGT-GEN-REF = 'Y'	5	All TGT-GEN-REF records to be processed
TGT-STA-DES = 'Y'	6	All TGT-STA-DES records to be processed
TGT-DEF-SEC = 'Y'	7	All TGT-DEF-SEC records to be processed
TGT-OB = 'Y'	8	All TGT-OB records to be processed
TGT-PHOT = 'Y'	9	All TGT-PHOT records to be processed
TGT-PRFL = 'Y'	10	All TGT-PRFL records to be processed
PROCESS-OPTION = 'N'	13	Data is to be processed without the mass storage file or input. Range must be specified
DATA-TYPE = 1, 2, 3	16	1 = only Aircraft data to be processed
		2 = only MI and KH data to be processed
		3 = all data is to be processed

* OTHERWISE FIELD LEFT BLANK

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COMPUTER RUN PREPARATION (Continued)

PUNCHED CARD INPUT   (Continued)

Type:

Identification:

Format:

N = numeral
A = letter
X = any legitimate character
     in card code

Z = optional character (letter of
     numeral)
& = plus
- = minus
S = special character

Field	Column	Comments
		- Used to process a range of MRNs.
		- If Process-Option field is used, these fields must contain the MRN number to begin processing and the MRN number to end processing.
MRN RANGE-BEGIN	19-24	
MRN RANGE-END	25-30	
		- If Process-Option field is blank, these fields must also be blank.

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Program ___IDFEX1___

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PUNCHED CARD INPUT (Continued)

Field	Column	Comments
Beginning Range	19-24	Beginning Range of MRN's
End Range	25-30	Ending Range of MRN's

Source: Card is to be created by DCOB

Sequence: Card must follow '@XQT' statement in operational runstream

Restrictions: ~~Only one~~ *MULTIPLE* input cards ~~per run~~ *CAN BE USED*

Peripheral Device: Card-Reader

Quantity: 1

Disposition:

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MAGNETIC TAPE OUTPUT

Contents and Description of Tape Data

Unit

Standard Tape Label: 'NDS 13 (SYS) IDFEX1'
                     (to be inserted by programmer)

Label Block File Name:

Mode: PASC

Code:

Record and Block Size: 240 characters/record
                      50 record/block

File Sequence: Sequential

Source Component:

Disposition:

Retention Period:

Restrictions:

Quantity:

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Program ___IDFEX1___

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OUTPUT TAPE FORMAT

See the <u>Installations Data File - Magnetic Tape Format</u>, April 1981, N40404.

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NORMAL RUN INSTRUCTIONS

Initiation:

Monitor:

Message	Cause	Operator Action
Operator, enter output real number of this run EX*01234	Program requires tape number	Enter tape number (See next page for example of console message)
_____ were input to the sort _____ were output to the sort _____ were duplicate records and not processed' _____ records put in the IDFHISTEX from the sort		
Sort is not complete	Statistics from Sort Routine of the IDFHISTEX Task	None
Task is not complete	Statistics from the IDFHISTEX Program	None

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Program IDFEX1

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ABNORMAL RUN INSTRUCTIONS

Messages:

Message	Cause	Operator Action
No control card in run deck for this run	User did not insert a control card in runstream	Insert the control card following the @XQT state-ment, restart runstream
Invalid range on input card	End-range was greater then beginning range	Correct range on control card and restart runstream
Range on input card not numeric	Range on input card not a numeric ending	Correct range on control card and restart runstream
EOF reached in IDHISTEX file	Abnormal end of file	Notify CSD
Total records = _____		
Fatal data base error Record was _____ Key was _____ Error-Status = _____	A fatal data base error	Notify CSD
Data base key for _____ was bad Error status = _____ Key was _____ Record-Type = _____ Program continues	Invalid data base key	Notify CSD
Error on impact	DMS error occured while imparting	Restart run, if error occurs again notify CSD
Error on open for retrieval	DMS error occured while opening	Restart run, if error occurs again notify CSD
No IDFHISTEX Tape	Program error trying to read write to output tape	Notify CSD
Reel number was not a numeric entry	Operator entered an illegal output reel number	Enter correctly
Pls Reenter		

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Program __IDFEX1__

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ABNORMAL RUN INSTRUCTIONS (Continued)

MESSAGE	CAUSE	OPERATOR ACTION
Reel number was spaces Please Reenter	Operator entered spaces or zeros for output reel number	Enter correctly
Unable to locate a TGT-HDR Record with min _____	Program error	Notify CSD
Invalid key on Read	Program error	Notify CSD
Invalid key on Write	Program error	Notify CSD
Error sort counts not equal Sort in = _____ Sort out = _____	Program error	Notify CSD
Illegal data base key for __ __	Data base error	Notify CSD; save printed output for CSD rep.

Error Status = _____
MRN number was _____
Record type was _____
Processing continues _____

Error/Fault:

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COMPILE-MAP RUNSTREAM

```
 1:aRUN   IDFEX1.S33741069/MARYAD.XA1
 2:aDELETE.C XAU*C-IDFEX1.
 3:aASG.UP XAU*C-IDFEX1.
 4:aADD XAU*WSRUN.IDFEX1/USES
 5:aERS TPFS.
 6:aUSE C-IDFEX1..XAU*C-IDFEX1.
 7:aSYM.D PRINTS
 8:aBRKPT PRINTS/C-IDFEX1
 9:aASG.AX SOURCEFILE.
10:aCOPY.S SOURCEFILE.IDFEX1.TPFS.
11:aFREE SOURCEFILE.
12:aASG.A NDS*PRODSCHEMA.
13:aADMLP.ZF TPFS.IDFEX1.TPFS.IDFEX1
14:aCOB.ES TPFS.IDFEX1.TPFS.IDFEX1
15:aASG.AX RELFILE.
16:aCOPY.R TPFS..RELFILE.
17:aPACK RELFILE.
18:aFREE RELFILE.
19:aBRKPT PRINTS
20:aSYM.D PRINTS
21:aFIN
```

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Program ___IDFEX1___

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SAMPLE RUNSTREAM

```
1:@RUN    IDFEX1,S33741069/MARYAD,XAU
2:@ASG,AX XAU*P$ABS.
3:@ERS TPF$.
4:@COPY,A XAU*P$ABS.IDFEX1,TPF$.
5:@FREE XAU*P$ABS.
6:@ASG,TJ HISTAP,U9V//////Q
7:@XQT TPF$.IDFEX1
8:   Y YY YY N  3  003550003557
9:@FIN
```

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